

Worksheet for Planning Lot & Sublot Distribution of QC/QA Superstructure Concrete in Metric Units

Contract No. _____ Total Plan Quantity of QC/QA Superstructure Concrete _____ m³

Number of CMD's required _____

[illegible]

$$\Sigma = \frac{\quad \text{m}^3}{\div 120.0 \text{ m}^3}$$

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1. If decimal portion is less than 0.434, round the result down to nearest whole number to determine the number of Lots. The last Lot of a CMD will contain 3 or 4 Sublots
2. If decimal portion is equal to or greater than 0.434, round the result up to the nearest whole number to determine the number of Lots. The last Lot of a CMD will be less than the standard quantity, consist of 2 or 3 Sublots, and likely will have one Sublot of partial size.
3. An individual Sublot cannot contain less than 12.1 m³ or more than 52.0 m³.
4. The last Lot for a CMD is required to have at least 2 Sublots, but never more than 4 Sublots.

[illegible][illegible]

**INDIANA DEPARTMENT OF TRANSPORTATION
MATERIALS AND TEST DIVISION**

**RANDOM SAMPLING FOR SUPERSTRUCTURE CONCRETE
(METRIC UNITS)**

Contract No. _____ Str. No. _____ Construction Phase ____ CMD ____ of _____

QC/QA Superstructure Quantity for Phase (z) _____ m³

Phase Construction Dimensions: Length (l) _____ mm = _____ m, Width (w) _____ mm = _____ m
1000 1000

Average Depth (d) = $\frac{z}{l \times w}$ = _____ m

Lot No. _____ Lot Size _____ m³ Number of Sublots _____

Sublot No.	Sublot Size (m ³)	Cumulative Quantity of Ph/Str (m ³)	Remainder Quantity (m ³)	Random No.	Random Quantity Within Sublot (m ³)	Random Distance From Start of Ph/Str (m)	Sublot Location	
							Begin (m)	End (m)
A	B	z-B	C	D = AxC	$\frac{(D-A+B)}{w \times d}$			$\frac{B}{w \times d}$
1								
2								
3								
4								

* Sublot information that carries over to the next construction phase or structure placement.

** Acceptance sample location will be obtained during next construction phase or structure placement.
